

ABSTRACT OF THE DISCLOSURE

A projection display device is provided. The projection display device may include an image generation device configured to generate an image and a wide angle lens system having an optical axis configured to receive the image and project the image along an optical path for display above the display device. The projection display device further may include direction changing optics configured to fold the optical path such that the optical path changes direction from a first direction to a second direction. In some embodiments, the image generation device may be positioned below the optical axis of the wide angle lens system.